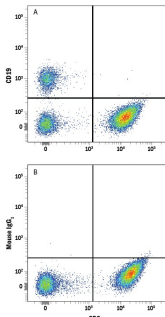


DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD19.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 4G7-2E3
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human CLL cells
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS		
<b>Please Note:</b> Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	5 µL/10 <sup>6</sup> cells	See Below

DATA	
<p><b>Flow Cytometry</b></p> 	<p><b>Detection of CD19 in Human PBMCs by Flow Cytometry.</b> Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human CD3ε APC-conjugated Monoclonal Antibody (Catalog # FAB100A) and either (A) Mouse Anti-Human CD19 Alexa Fluor® 594-conjugated Monoclonal Antibody (Catalog # FAB4867T) or (B) Mouse IgG<sub>1</sub> Alexa Fluor 594 Isotype Control (Catalog # IC002T). View our protocol for <a href="#">Staining Membrane-associated Proteins</a>.</p>

PREPARATION AND STORAGE	
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

**BACKGROUND**  
CD19 is a 95 kDa transmembrane glycoprotein with two Ig-like C2-set domains. CD19 regulates B cell development and activation through interactions with CD21, CD22, and the B cell receptor. CD19 polymorphisms and up-regulation lead to the development of autoimmunity by promoting autoantibody production. Within the extracellular domain, human CD19 (Accession # P15391) shares 57% amino acid sequence identity with mouse and rat CD19.

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